



Docket No. 00279.152US1

CPI Ref. No. 99-004

Clean Version of the Amended Claims

INDUCTIVE COIL APPARATUS FOR BIO-MEDICAL TELEMETRY

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Serial No.: 09/541,452

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TECHNOLOGY CENTER R3700

Please replace claims 1 - 3, 6, 7, 23 and 25, with their respective claims, as amended, below:

1. (Twice Amended) An apparatus for communication with an implanted medical device, comprising:

a first and a second telemetry coil concentrically planarly wound substantially in a common plane and each adapted to inductively couple with the implanted medical device;

and

a communication lead having a first end and a second end, where the first end is communicatively coupled to the first and the second telemetry coil and the second end is adapted to be communicatively coupled to a medical device programmer.

Sub C1
B2 2. (Once Amended) The apparatus of claim 1, further including a flexible housing, where the flexible housing encases the first and the second telemetry coils.

Sub C2
B3 3. (Once Amended) The apparatus of claim 1, where the first and the second telemetry coils include one or more loops of a conductive wire.

Sub C2
B3 6. (Once Amended) The apparatus of claim 5, where the magnetically permeable material is made of a ferrite powder.

7. (Once Amended) The apparatus of claim 1, where a predetermined outer dimension of the first and the second telemetry coils is a diameter in a range of fifteen (15) to forty-six (46) centimeters.

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23.(Once Amended) An apparatus for communication with an implantable medical device, comprising:

a first and a second telemetry coil, where the first and the second telemetry coil include a predetermined outer dimension sufficient to allow communications between the first and the second telemetry coils and the implantable medical device where the first and the second telemetry coils include one or more loops of a conductive wire, and wherein the first telemetry coil and the second telemetry coil are concentrically planarly wound substantially in a common plane, where the conductive wire is wound around a core, where the core is constructed of a magnetically permeable material that enhances flux density of the apparatus, where the magnetically permeable material includes a ferrite powder; and

a communication lead having a first end and a second end, where the first end is communicatively coupled to the first and the second telemetry coil and the second end adapted to be communicatively coupled to a medical device programmer.

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25. (Once Amended) The apparatus of claim 23, further comprising:

a flexible housing, where the flexible housing encases the first and the second telemetry coil, where the flexible housing is conformable to an irregular surface.